WHAT IS CLAIMED:

1. A rotor for a paper stock processing machine comprising:
at least one rotor blade having a leading front surface to be protected;
an anti-wear element comprising a base body and at least one wear-resistant surface,

said anti-wear element is coupled to said leading front surface.

- 2. The rotor in accordance with claim 1, wherein said anti-wear element is welded to said leading front surface.
- 3. The rotor in accordance with claim 1 in combination with a tank of a paper stock processing machine, wherein said rotor is rotatably mounted within said tank to circulate a stock suspension in said tank.
- 4. The rotor in accordance with claim 3, wherein said paper stock processing machine is a primary pulper having a horizontally oriented screen, and said rotor is rotatably mounted so that said leading front surface positioned adjacent said screen.
- 5. The rotor in accordance with claim 3, wherein said paper stock processing machine is a secondary pulper having a vertically oriented screen, and said rotor is rotatably mounted so that said leading front surface positioned adjacent said screen.
- 6. The rotor in accordance with claim 1, wherein said at least one wear-resistant working surface comprises a layer of wear-resistant material that is firmly coupled to said base.
- 7. The rotor in accordance with claim 6, wherein said at least one wear-resistant material is fixed onto said base body by hard facing.
- 8. The rotor in accordance with claim 6, wherein said anti-wear element is formed separately from said rotor, and said anti-wear element is welded to said at

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least one rotor blade.

- 9. The rotor in accordance with claim 1, wherein said at least one rotor blade comprises a plurality of rotor blade having leading front surfaces, and at least one partial section of each said leading front surface of each rotor blade, radially inwardly from a free end, is completely covered by said anti-wear element.
- 10. The rotor in accordance with claim 1, wherein a portion of said antiwear element coupled to said at least one rotor blade protrudes past said leading front surface.
- 11. The rotor in accordance with claim 10, wherein said portion extends past said leading front surface in a direction adapted to face a screen in a paper stock processing machine.
- 12. The rotor in accordance with claim 1, wherein a face of said anti-wear element is beveled at an angle α of between approximately 1° and 45° from parallel to a rotational axis of said rotor.
- 13. The rotor in accordance with claim 12, wherein said face of said antiwear element is beveled such that a radial distance of a surface of said face from said rotational axis increases in a direction toward said leading front surface.
- 14. The rotor in accordance with claim 1, wherein said leading front surface has one of a cylindrical and conical ring segment shape.
- 15. An anti-wear element for protecting a leading front surface of a rotor blade, comprising:
 - a base body with a back side; and
 - at least one wear-resistant working surface,
- wherein said back side is formed to correspond to a shape of, and to be coupled to, the leading front edge.
 - 16. The anti-wear element in accordance with claim 15, wherein said back

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side is welded to said leading front edge.

- 17. The anti-wear element in accordance with claim 15, in combination with a tank of a paper stock processing machine, wherein the rotor blades are adapted to to circulate a stock suspension contained in said tank.
- 18. The anti-wear element in accordance with claim 15, wherein said wear-resistant working surface comprises a wear-resistant material.
- 19. The anti-wear element in accordance with claim 18, wherein said wear-resistant material comprises a non-rusting, alloyed high-grade steel.
- 20. The anti-wear element in accordance with claim 15, wherein said base body has one of a cylindrical and conical ring segment shape.
- 21. The anti-wear element in accordance with claim 15, wherein said wear-resistant working surface is welded to said base body and said wear-resistant surface is arranged to form at least one front edge that extends over an edge of said base body opposite said back side.
- 22. The anti-wear element in accordance with claim 21, wherein a curvature radius of said front edge is a maximum of approximately 2 mm.
 - 23. A paper stock processing apparatus comprising:

a tank;

a screen;

a rotor rotatably coupled adjacent said screen;

said rotor comprising at least one rotor blade having a leading front surface, relative to a rotational direction of said rotor, and an anti-wear element coupled to said leading front edge;

said anti-wear element comprising a base body and a wear-resistant working surface.

24. The apparatus in accordance with claim 23, wherein said base body is

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welded to said leading front surface, and said wear-resistant working surface is coupled to said base body.

- 25. The apparatus in accordance with claim 23, wherein a portion of said anti-wear element is arranged to protrude past said leading front surface.
- 26. The apparatus in accordance with claim 25, wherein said portion extends past said leading front surface in a direction adapted to face said screen.
- 27. The apparatus in accordance with claim 23, wherein said tank is a primary pulper tank.
- 28. The apparatus in accordance with claim 23, wherein said tank is a secondary pulper tank.

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